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16. (Previously Presented) The method of claim 15, wherein selecting one of said first and second sets of M parity encoded output digital audio data streams as the output of said broadcast router further comprises:

determining a first sum by adding said at least one bit added to said first set of M parity encoded output digital audio data streams;

determining a second sum by adding said at least one bit added to said second set of M parity encoded output digital audio data streams; and

selecting, one of said first and second sets of M parity encoded output digital audio data streams as the output of said broadcast router based upon the presence of parity errors in said first set of M parity encoded output digital audio data streams, the presence of parity errors in said second set of M parity encoded output digital audio data streams and a comparison of said first sum to said second sum.

17. (Previously Presented) The apparatus of claim 1, wherein said output card is further configured to continue providing as the output therefrom the unselected one of said first and second sets of M parity encoded output digital audio streams, even if no further parity error is detected in said selected one of said first and second sets, unless a parity error is detected in said unselected one of said first and second sets.

18. (Currently Amended) A fault-tolerant router, comprising:

a first router matrix card, said first router matrix card receiving N parity encoded input digital data streams and generating, from said N parity encoded input digital data streams, a first set of M parity encoded output digital streams, wherein M and N are integers and M is different from N;

a second router matrix card, said second router matrix card receiving said N parity encoded input digital data streams and generating, from said N parity encoded input digital data streams, a second set of M parity encoded digital streams;

an output card coupled to said first router matrix card and said second router matrix card, said output card receiving said first set of M parity encoded output digital streams from said first router matrix card and said second set of said M parity encoded output digital streams from said second router matrix card, providing, as an output therefrom, a selected one of said first and second sets of M parity encoded output digital streams, and switching from said selected one of said first and second sets of M parity encoded output digital data streams to an unselected one of said